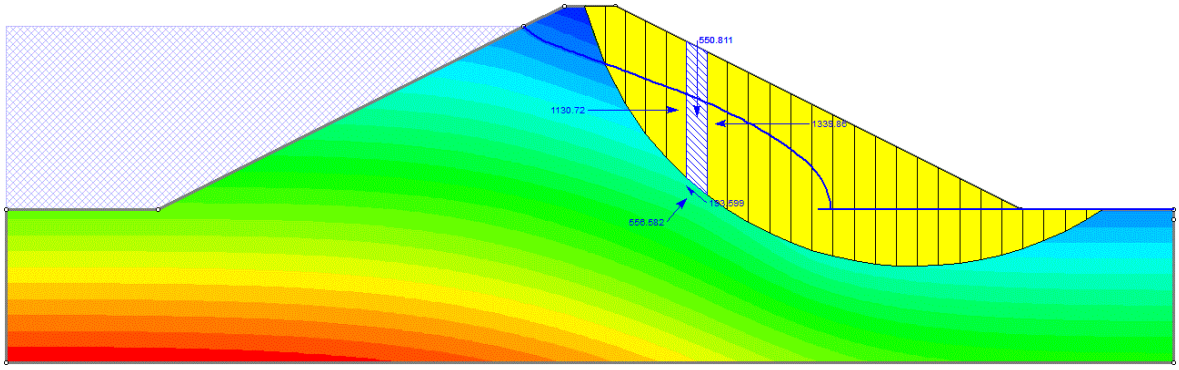
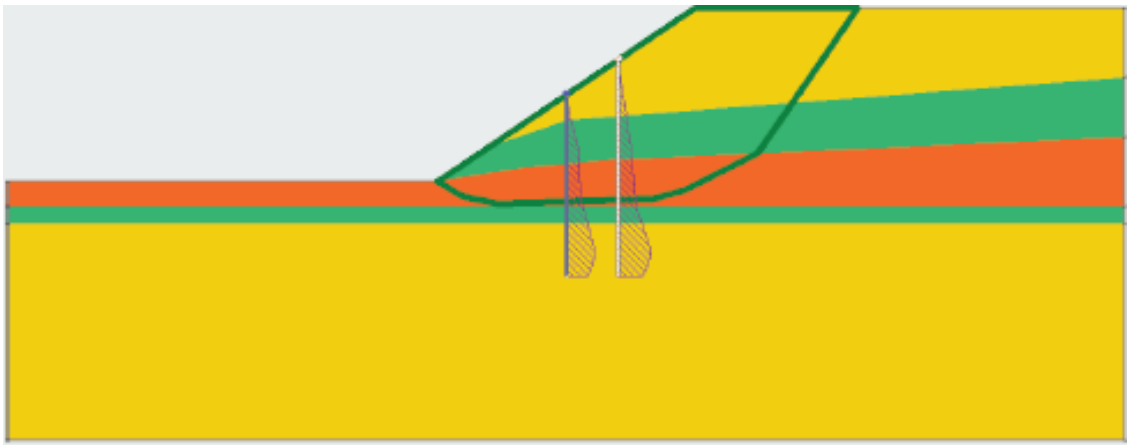
Slope Stability Analysis for 2D and 3D Geotechnical Problems

This workshop will focus on the different numerical approaches to solving 2D and 3D slope stability problems. The two main methods for slope stability analysis, Limit Equilibrium (LE) and Finite Element (FE) shear strength reduction, will be demonstrated throughout various examples.

Examples of supported and un-supported slope problems will be used to demonstrate the influence of support elements on stability. The influence of passive support elements such as piles is also introduced by implementing p-y method to include the effect of lateral soil movement on the overall slope stability analysis.

The session will include case studies to demonstrate the 3D effect on overall stability and introduce concepts on validating 2D slope stability analysis.





Presenter:
Dr. Thamer Yacoub, P.Eng. is the President of Rocscience. He has more than 20 years of experience in geomechanics numerical modeling. Thamer has a wide range of experience in several numerical modeling applications, covering topics including slope stability analysis, settlement analysis, foundation analysis, and stress analysis in both surface and underground environments. He also has extensive experience in probabilistic analysis of slopes